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Mechanical Agitator Power Requirements For

Mechanical agitator power requirements for liquid batches are calculated by determining the power number, N_p , for a given system and correcting for motor, gearing and bearing losses. Design specification of the motor is then determined by selecting

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the closest higher standard size.

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Mechanical Agitator Power Requirements for Liquid Batches ...

Agitator Power Calculates agitator speed and power requirement for a given reactor geometry and mixture properties. Reactor Geometry Batch Volume (V) m^3 . Agitator. D/T ...

Agitator Power Requirement - CheCalc

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Agitation - Power Required Home -> Solved Problems -> Mechanical Operations -> An agitated baffle vessel is being used to prepare a uniform solution of viscosity 2 cP, running the agitator at 100 rpm, so as to obtain a Reynolds number of 50,000.

Power Required for Agitation - Mechanical Operations ...

Mechanical Agitator Power Requirements for Liquid Batches _____
Application Equations Mechanical agitator power requirements for liquid batches are calculated by determining the power number, N_p , for a given system and correcting for motor, gearing and bearing losses. Design specification of the motor is then determined by

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Paddle agitator i'm considering around 1m, Power required = N_p

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$x \text{ density} \times (\text{RPM}^3) \times (\text{dia}^5) = 1.8 \times 1200 \times ((70/60)^3) \times (1^5) = 3430 \text{ watts} = 3.43 \text{ KW} = 4.6 \text{ HP}$. Consider 85% efficiency of motor, required motor power = 5.4 HP. ** RPM and the agitator dia can be changed based on your requirement.
Best Regards, AJAY K. Delete

[How To] Select a Motor Capacity for Agitator - Pharma ...

1) Mechanical Agitator Witness/hold point by Code Inspector, when applied by Code Stamp/Local Regulation, is to comply with its requirements and to specify in Vendor's ITP. 2) Type of Inspection by Mechanical Agitator Purchaser may be changed according to equipment criticality and vendor QC evaluation at job stage.

Mechanical Agitator Inspection and Test Plan

Download Agitator Power Requirement and Mixing Intensity Calculator 11 Votes 20. Use this MS Excel spreadsheet to

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calculation the power requirements and mixing intensity for a defined mixing application. Disclaimer: All software provided "As-Is" with no warranty, expressed or implied, available. ...

Agitator Power Requirement and Mixing Intensity Calculator ...

Mechanical agitator granulators can also be referred to as low shear granulators. During granulation process, the active compound and other excipients are combined with a binder solution to form granules with a fixed composition through rotating low-shear forces via low-power-per-unit-mass with addition of a liquid.

Mechanical Agitator Granulators: Operating principle ...

The relationship between torque, power and speed requirements were used to calculate the size of the electric motor required. 2.3 Design of the Transmission Shaft. From the

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preliminary design drawing of the agitator, radius of rotation = 600mm, length of shaft = 90mm, weight of the tank and its content =2000N, mass of the

Design of A Mechanical Agitator for Supplementing Paint

...

Agitator Power Consumption Calculation - posted in Industrial Professionals: I wanted to calculate power consumption of agitator having 3 impellers installed on a single shaft and running at same speed. All impellers attached to shaft is identical. On internet I found articles for power consumption calculation for agitator with one impeller only.

Agitator Power Consumption Calculation - Industrial ...

Mainly 4 types of Agitators are used in Pharmaceutical reactors, they are: 1.Anchor 2.Turbine 3.Propeller 4.gas induction Several different kind of industrial agitators exist: mechanical agitators

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(rotating) static agitators (pipe fitted with baffles) Rotating tank agitators (like concrete mixer) Agitator mixer paddle type

Industrial agitator - Wikipedia

Mechanical Agitator Power Requirements for Liquid Batches _____
The selection of an electric motor required to deliver the design power to an application consists of two additional steps after the power delivered has been calculated from equations (12) and (14). Hope, all issues pertaining to basis for design of slurry mixing agitators have ...

Agitator Shaft Design Calculation

These agitators power a large segment of the market, where the demand has not waivered. ... thus increasing the power requirements of the agitator and reducing its overall efficiency. ... causing many process failures and mechanical breakdowns of the agitators. Mechanical agitators are found in many

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wastewater treatment processes such as anoxic ...

Small Top Entry Agitators - AFX Holdings

POWER CONSUMPTION OF AGITATORS $P = K Q^2 D^2 n^3$ (Flow number) $1 \tan$
 $3 \ 3 \ a \ Q \ a \ a \ a \ nD \ q \ N \ q \ nD \ q \ K \ D \ n \ k \ D \ W \ v \ S \ E \ S$ It is a function of
the volumetric flow rate and the kinetic energy Values of $N \ Q$
HE-3 high-efficiency impeller 0.47 Disk turbine 1.3 Four-blade
45q turbine (W/D 0.87 a)=1/6 Marine propellers (square pitch)
0.5 $N \ Q$ Impeller (Power number) $2 \ 2 \ 2 \ \dots$

CHAPTER 9. AGITATION AND MIXING

The SB agitator is a belt-driven unit with features engineered for side entry agitator service. Model 20 HT / GT The Model 20 HT/GT agitators feature a high-efficiency gearbox designed specifically for agitator service. Models are available in right angle and parallel shaft configurations.

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Chemineer

The mechanical design of these systems is often complex, with the agitators seeing large fluid forces and consequential shaft deflection. AFX has many years' experience in the process and mechanical design of these agitators. The impeller of choice is the AFX high solidity P4 impeller, providing efficient operation at high gas induction rates.

Agitators Designed and Manufactured by AFX Holdings

The mechanical seal has a number of options depending on the duty - single/double mechanical seal, dry or wet mechanical seal, gas lift off mechanical seal that is related to the duty involved. An agitator shaft is connected to the drive unit (motor & gearbox) and where the impellers used for the mixing are welded or bolted onto.

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